

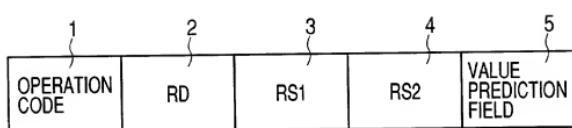
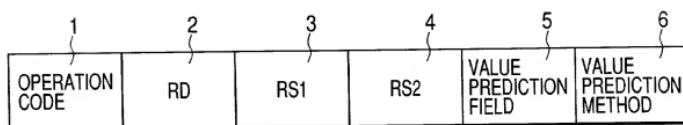
FIG. 1*FIG. 2*

FIG. 3

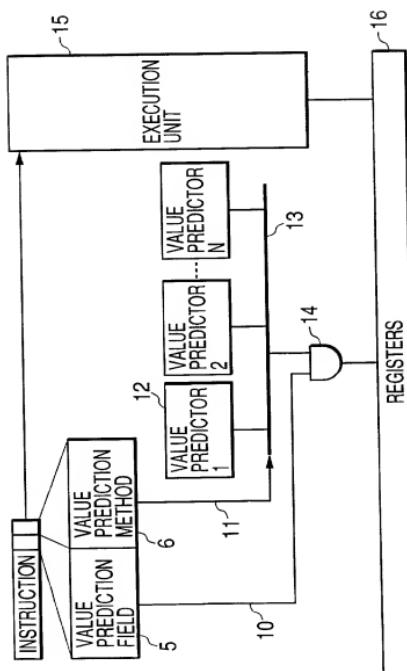


FIG. 4

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INSTRUCTION CACHE	
INSTRUCTION	VALUE PREDICTION FIELD
INSTRUCTION	VALUE PREDICTION FIELD
INSTRUCTION	VALUE PREDICTION FIELD
...	...
INSTRUCTION	VALUE PREDICTION FIELD

7

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FIG. 5

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INSTRUCTION CACHE		
INSTRUCTION	VALUE PREDICTION FIELD	VALUE PREDICTION METHOD
INSTRUCTION	VALUE PREDICTION FIELD	VALUE PREDICTION METHOD
INSTRUCTION	VALUE PREDICTION FIELD	VALUE PREDICTION METHOD
...
INSTRUCTION	VALUE PREDICTION FIELD	VALUE PREDICTION METHOD

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FIG. 6

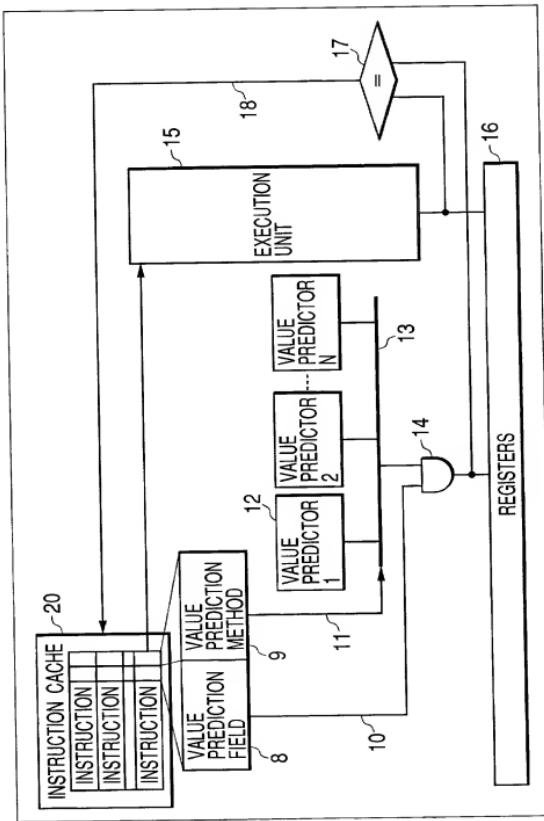
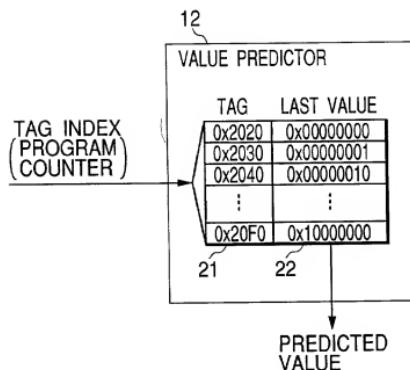
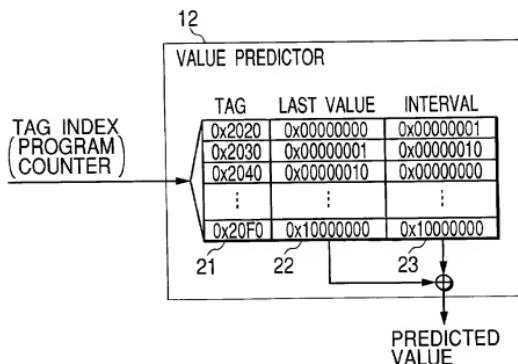


FIG. 7**FIG. 8**

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FIG. 9

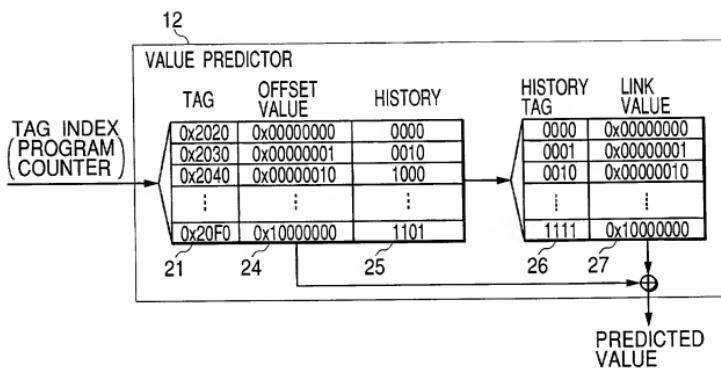


FIG. 10

0x2020	xor r1, r1, r1	:r1=0	r1 IS ALWAYS 0
loop :			
0x2024	add r2, r1, 0x4	:r2=r1+4=4	r2 IS ALWAYS 4
0x2028	add r3, r1, 0x8	:r3=r1+8=8	r3 IS ALWAYS 8
0x202C	add r4, r1, 0xC	:r4=r1+12=12	r4 IS ALWAYS 12
0x2030	bc loop	:loop	

FIG. 11

0x2020	xor r1, r1, r1	:r1=0	THE INITIAL VALUE OF r1 IS 0
loop :			
0x2024	add r1, r1, 0x1	:r1=r1+1	r1 INCREASES BY 1 EVERY TIME
0x2028	add r2, r1, 0x4	:r2=r1+4	r2 INCREASES BY 1 EVERY TIME
0x202C	add r3, r1, 0x8	:r3=r1+8	r3 INCREASES BY 1 EVERY TIME
0x2030	add r4, r1, 0xC	:r4=r1+12	r4 INCREASES BY 1 EVERY TIME
0x2034	bc loop	:loop	

FIG. 12

0x2020	xor r1, r1, r1	:r1=0
0x2024	add r1, r1, 0x1	:r1=r1+1=1 THE INITIAL VALUE OF r1 IS 1
loop:		
0x2028	mul r1, r1, -0x1	:r1=r1*(-1) r1 ALTERNATES BETWEEN -1 AND 1
0x202C	add r2, r1, 0x4	:r2=r1+4 r2 ALTERNATES BETWEEN 3 AND 5
0x2030	add r3, r1, 0x8	:r3=r1+8 r3 ALTERNATES BETWEEN 7 AND 9
0x2034	add r4, r1, 0xC	:r4=r1+12 r4 ALTERNATES BETWEEN 11 AND 13
0x2038	bc loop	:loop

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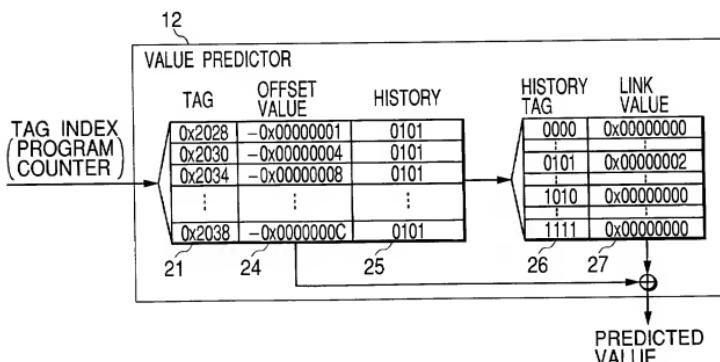
FIG. 13

FIG. 14

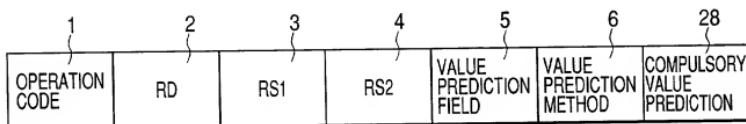
0x2020	ld r1, adr	:r1←Mem [adr]	LOAD THE VALUE ON r1 FROM MEMORY
loop :			
0x2024	add r2, r1, 0x4	:r2=r1+4=4	r2 IS ALWAYS 4
0x2028	add r3, r1, 0x8	:r3=r1+8=8	r3 IS ALWAYS 8
0x202C	add r4, r1, 0xC	:r4=r1+12=12	r4 IS ALWAYS 12
0x2030	bc loop	:loop	

FIG. 15

0x2020	ld r1, adr	:r1←Mem [adr]	LOAD THE VALUE ON r1 FROM MEMORY
loop :			
0x2024	add r1, r1, 0x1	:r1=r1+1	r1 INCREASES BY 1 EVERY TIME
0x2028	add r2, r1, 0x4	:r2=r1+4	r2 INCREASES BY 1 EVERY TIME
0x202C	add r3, r1, 0x8	:r3=r1+8	r3 INCREASES BY 1 EVERY TIME
0x2030	add r4, r1, 0xC	:r4=r1+12	r4 INCREASES BY 1 EVERY TIME
0x2034	bc loop	:loop	

FIG. 16

0x2020	xor r1, r1, r1	:r1=0	
0x2024	ld r1, adr	:r1←Mem [adr]	LOAD THE VALUE TO r1 FROM MEMORY
loop :			
0x2028	mul r1, r1, -0x1	:r1=r1×(-1)	r1 ALTERNATES BETWEEN -1 AND 1
0x202C	add r2, r1, 0x4	:r2=r1+4	r2 ALTERNATES BETWEEN 3 AND 5
0x2030	add r3, r1, 0x8	:r3=r1+8	r3 ALTERNATES BETWEEN 7 AND 9
0x2034	add r4, r1, 0xC	:r4=r1+12	r4 ALTERNATES BETWEEN 11 AND 13
0x2038	bc loop	:loop	

FIG. 17**FIG. 18**

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INSTRUCTION CACHE			
INSTRUCTION	VALUE PREDICTION FIELD	VALUE PREDICTION METHOD	COMPULSORY VALUE PREDICTION
INSTRUCTION	VALUE PREDICTION FIELD	VALUE PREDICTION METHOD	COMPULSORY VALUE PREDICTION
INSTRUCTION	VALUE PREDICTION FIELD	VALUE PREDICTION METHOD	COMPULSORY VALUE PREDICTION
⋮	⋮	⋮	⋮
INSTRUCTION	VALUE PREDICTION FIELD	VALUE PREDICTION METHOD	COMPULSORY VALUE PREDICTION

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FIG. 19

